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(71) Applicant (for all designated States except US): KONINKLIJKE PHILIPS ELECTRONICS N. V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): JASPERS, Cornelius, A., M. [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(74) Agent: SCHOENMAKER, Maarten; International Octrooibureau B.V., Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

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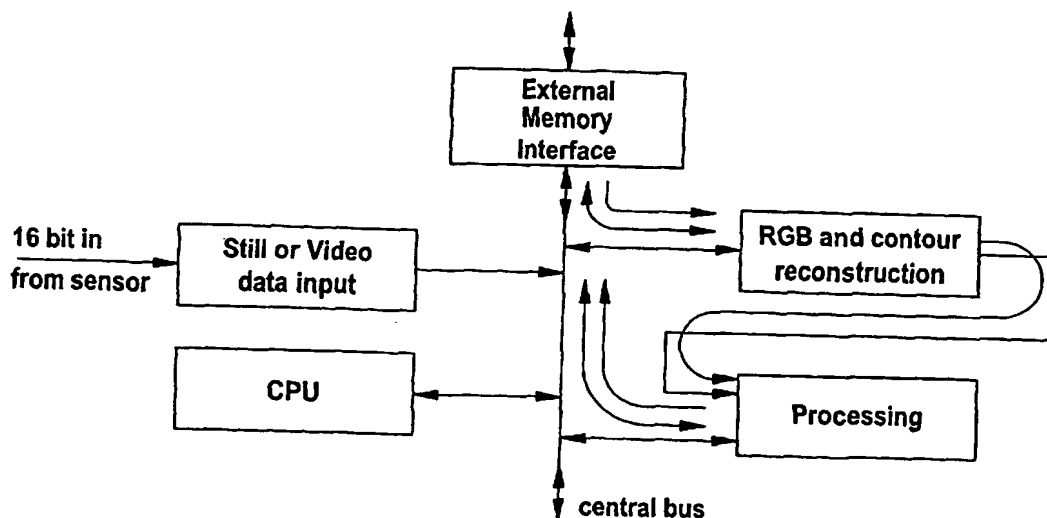
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(54) Title: METHOD AND APPARATUS FOR SIGNAL PROCESSING, COMPUTER PROGRAM PRODUCT, COMPUTING SYSTEM AND CAMERA



(57) **Abstract:** A reconstruction method based on a white-compensated luminancereconstruction and using filter weights referred to as smartgreen-parameters is proposed. An aliasing free luminance signal, even at the multiples of the sample frequency and in case of a camera without optical low pass filter is achieved. Moreover this white-compensated luminance-signal is free of signal distortion. The proposed method allows a suitable low pass filter to be added or combined and is particularly well suited to implement a variety of aliasing free color- and contour-filters. The RGB color signals are reconstructed using filter weights which can be chosen as a function of the heaviness of the sensor matrix and of the optical transfer of the camera.